Christopher Layton
Town Manager
September 18, 2013

- Background
- Overview of Options
- Preferred Option
- Examples of MSDs
 - County/Town MOU

- Background
 - Discussions with County
 - Duck, Kill Devil Hills, Kitty Hawk, plus County Projects
 - DEC Associates
 - \$22 million, plus annual debt service
 - Development of Three Versions

Overview of Options

- Town
 - Estimated project cost of \$14,443,816
 - Estimated construction cost \$13,693,816
 - Town portion to be paid with Special Obligation Bonds
- County
 - Contributes \$22 million for three projects
 - Plus \$1 million annually for debt service (5 years)
 - Contributes \$750,000 for permits
 - Desire to have \$22 million in the FB after 5 years

County of Dare Beach Nourishment Projects - Summer 2015 Model Version Comparisons

Version 2

		Version 2a Towns Pay Pro- Rata Portion ased on Project Costs	7.82 P	Version 2b 2¢ Town-Wide roperty Tax crease for All Towns	Eq Wide	Version 2c qual % Town- e Property Tax crease for All Towns	
Dare Co. Upfront Money By Town:	\$	7.700.000	\$	7,700,000	\$	8,700,000	
Duck Kitty Hawk	\$		\$	10,300,000	\$	11,300,000	·
Kill Devil Hills	\$		\$	4,000,000	\$	2,000,000	
Total Dare Co. Upfront Money:	\$	22,000,000	\$	22,000,000	\$	22,000,000	
Borrowed Amount By Town:							
Duck	\$	6,743,816	\$	6,743,816	\$	5,743,816	
Kitty Hawk	9	7,935,159	\$	6,215,159	\$	5,215,159	
Kill Devil Hills	\$	5,242,691	\$	6,962,691	\$	8,962,691	
Total Borrowed:	9	19,921,666	\$	19,921,666	\$	19,921,666	
Dare Co. Annual Money for D/S By Town;							_
Duck	9	350,000	\$	339,803	\$	378,509	
Kitty Hawk	5	390,000	\$	694,586	\$	373,389	
Kill Devil Hills	\$		\$	56,551	\$	223,982	
Total Dare Co. Annual Money for D/S:	5	1,000,000	\$	1,090,940	\$	975,879	

Town-Wide Property Tax Increase by Town:				
Duck	\$0.0775	\$0.0782	\$0.0609	
Kitty Hawk	\$0.1506	\$0.0782	\$0.0870	
Kill Devil Hills	\$0.0480	\$0.0782	\$0.0931	
% Increase Town-Wide Property Tax by Town:				
Duck	37%	37%	29%	
Kitty Hawk	50%	26%	29%	
Kill Devil Hills	15%	24%	29%	
New Town-Wide Property Tax by Town:				
Duck	\$0.2875	\$0.2882	\$0.2709	
Kitty Hawk	\$0.4506	\$0.3782	\$0.3870	
Kill Devil Hills	\$0.3689	\$0.3991	\$0.4140	
Beach Fund Balance Ending FY21:	\$ 20,847,284	\$ 21,521,840 \$	22,360,415	
Lowest FY Ending Beach Fund Balance:	\$ 8,840,394	\$ 8,840,394 \$	8,840,394	

- Version 2a (not preferred)
 - \$22 million from County split by estimated project cost
 - Duck 35%, \$7.7 million
 - County pays \$350k per year towards debt service
 - Town pays \$6,743,816 through Special Obligation Bonds
 - Debt Service of \$1,211,193 to \$1,022,367

County of Dare Beach Nourishment Projects - Summer 2015 Tuesday, September 3, 2013

Version 2a

Dare Pays Share of Towns' Debt Service up to \$1M/year Town's Pro-rata Portion of \$22,000,000 Upfront Payment based on Project Costs

	Revenues	Expenditures (Before New Nourishment Projects	One-Time Expenditures	New Nourishment Debt Service (Other Towns)	New Nourishment Debt Service (Dare Project)	Interest Earnings		EOY Fund Balance	Interest Earning Rate
2014	\$ 4,920,879	\$ 2,527,500				\$ 105,963	1\$	19,416,231	0.65%
2015	\$ 7,797,100	\$ 2,180,000				\$ 127,166	1\$	25,160,497	0.70%
2016	\$ 8,031,013	\$ 2,180,250	\$ 22,000,000		\$ 393,750	\$ 222,884	:\$	8,840,394	1.00%
2017	\$ 8,271,943	\$ 180,500		\$ 1,000,000	\$ 5,787,500	\$ 212,506	:\$	10,356,843	1.25%
2018	\$ 8,520,102	\$ 180,750		\$ 1,000,000	\$ 5,612,500	\$ 143,979	\$	12,227,674	1.50%
2019	\$ 8,775,705	\$ 181,000		\$ 1,000,000	\$ 5,437,500	\$ 197,615	\$	14,582,493	1.75%
2020	\$ 9,038,976	\$ 181,250		\$ 1,000,000	\$ 5,262,500	\$ 268,102	:\$	17,445,820	2.00%
2021	\$ 9,310,145	\$ 181,500		\$ 1,000,000	\$ 5,087,500	\$ 360,319	\$	20,847,284	2.25%
2022	\$ 9,589,450	\$ 181,750				\$ 478,664	\$	30,733,647	2.50%
2023	\$ 9,877,133	\$ 182,000				\$ 709,238	\$	41,138,018	2.75%

County of Dare

Beach Nourishment Projects - Summer 2015
Individual Town Project Breakdowns

Tuesday, September 3, 2013 Version 2a

	Pe	ermitting Cost	Construction Cost	•	Total Project Cost	% of Total Town Projects	D	Dare Co. lown Payment	otal Borrowed Amount	
Duck	\$	750,000	\$ 13,693,816	\$	14,443,816	35%	\$	7,700,000	\$ 6,743,816	Special Obligation Bonds
Kitty Hawk	\$	870,000	\$ 15,645,159	\$	16,515,159	39%	\$	8,580,000	\$ 7,935,159	Special Obligation Bonds
Kill Devil Hills	\$	550,000	\$ 10,412,691	\$	10,962,691	26%	\$	5,720,000	\$ 5,242,691	Special Obligation Bonds
Total	: \$	2,170,000	\$ 39,751,666	\$	41,921,666	100%	\$	22,000,000	\$ 19,921,666	
Dare			\$ 25,000,000	\$	25,000,000		\$	-	\$ 25,000,000	160A-20 Installment Purchase
Totals:	\$	2,170,000	\$ 64,751,666	\$	66,921,666		\$	22,000,000	\$ 44,921,666	

County of Dare

Beach Nourishment Projects - Summer 2015 Individual Town Projects

Term:

5 years

Interest Rate:

3.50%

Duck - 35% of Total Projects

	 1¢ =	\$15	6,188		\$ 0.21	Cu	rrent Propert	y Tax Rate		
	Principal		Interest	Debt Service	County Contributed		Town Contributed	on Property Tax		New Property Tax Rate
2014	•									
2015										
2016		\$	106,215	\$ 106,215	\$ -	\$	106,215			
2017	\$ 1,348,763	\$	212,430	\$ 1,561,193	\$ 350,000	\$	1,211,193	0.0775	37%	0.2875
2018	\$ 1,348,763	\$	165,223	\$ 1,513,987	\$ 350,000	\$	1,163,987	0.0745	35%	0.2845
2019	\$ 1,348,763	\$	118,017	\$ 1,466,780	\$ 350,000	\$	1,116,780	0.0715	34%	0.2815
2020	\$ 1,348,763	\$	70,810	\$ 1,419,573	\$ 350,000	\$	1,069,573	0.0685	33%	0.2785
2021	\$ 1,348,763	\$	23,603	\$ 1,372,367	\$ 350,000	\$	1,022,367	0.0655	31%	0.2755
2022										
2023										
otals:	\$ 6,743,816	\$	696,299	\$ 7,440,115						

- Version 2c (not preferred)
 - \$22 million from County split by estimated project cost
 - All three Towns increase taxes by 29%
 - County contributes \$8.7 million
 - County pays \$378,509 per year towards debt service (decreases each year)
 - Town pays \$5,743,816 through Special Obligation Bonds
 - Debt Service of \$951,185 per year

County of Dare Beach Nourishment Projects - Summer 2015 Tuesday, September 3, 2013

Version 2c

Dare Pays Share of Towns' Debt Serice up to \$1 M/year Equal % Town-Wide Property Tax Increase for All Towns

	Revenues	Expenditures (Before New Nourishment Projects	One-Time Expenditures	New Nourishment Debt Service (Other Towns)	New Nourishment Debt Service (Dare Project)	Interest Earnings		EOY Fund Balance	Interest Earning Rate	
2014	\$ 4,920,879	\$ 2,527,500	133.00			\$ 105,963	\$	19,416,231	0.65%	
2015	\$ 7,797,100	\$ 2,180,000				\$ 127,166	\$	25,160,497	0.70%	
2016	\$ 8,031,013	\$ 2,180,250	\$ 22,000,000		\$ 393,750	\$ 222,884	\$	8,840,394	1.00%	
2017	\$ 8,271,943	\$ 180,500		\$ 975,879	\$ 5,787,500	\$ 212,506	\$	10,380,963	1.25%	
2018	\$ 8,520,102	\$ 180,750		\$ 836,428	\$ 5,612,500	\$ 144,160	¦\$	12,415,548	1.50%	
2019	\$ 8,775,705	\$ 181,000		\$ 696,976	\$ 5,437,500	\$ 199,469	\$	15,075,246	1.75%	
2020	\$ 9,038,976	\$ 181,250		\$ 557,524	\$ 5,262,500	\$ 274,908	\$	18,387,856	2.00%	
2021	\$ 9,310,145	\$ 181,500		\$ 445,046	\$ 5,087,500	\$ 376,460	\$	22,360,415	2.25%	
2022	\$ 9,589,450	\$ 181,750				\$ 509,353	\$	32,277,468	2.50%	
2023	\$ 9,877,133	\$ 182,000				\$ 751,271	\$	42,723,871	2.75%	

Tuesday, September 3, 2013 Version 2c

County of Dare Beach Nourishment Projects - Summer 2015 Individual Town Project Breakdowns

	Pe	ermitting Cost	Construction Cost	Total Project Cost	% of Total Town Projects	D	Dare Co. own Payment	7.0	otal Borrowed Amount	
Duck	\$	750,000	\$ 13,693,816	\$ 14,443,816	35%	\$	8,700,000	\$	5,743,816	Special Obligation Bonds
Kitty Hawk	\$	870,000	\$ 15,645,159	\$ 16,515,159	39%	\$	11,300,000	\$	5,215,159	Special Obligation Bonds
Kill Devil Hills	\$	550,000	\$ 10,412,691	10,962,691	26%	\$	2,000,000	\$	8,962,691	Special Obligation Bonds
Total	: \$	2,170,000	\$ 39,751,666	\$ 41,921,666	100%	\$	22,000,000	\$	19,921,666	
Dare	97		\$ 25,000,000	\$ 25,000,000		\$	-	\$	25,000,000	160A-20 Installment Purchase
Totals:	\$	2,170,000	\$ 64,751,666	\$ 66,921,666		\$	22,000,000	\$	44,921,666	

0/ of Total

County of Dare

Beach Nourishment Projects - Summer 2015 Individual Town Projects

Term:

5 years

29.00% Increase for all

Interest Rate:

3.50%

					Duck - 3	35%	of Total Pro	jec	ts			
		1¢ =		\$156,188		\$	0.21	Cu	rrent Propert	y Tax Rate)	
		Principal		Interest	Debt Service		County Contributed		Town Contributed	on Property Tax		Nev Property Tax Rate
2014	-		ye.									
2015												
2016			\$	90,465	\$ 90,465	\$	•	\$	90,465			
2017	\$	1,148,763	\$	180,930	\$ 1,329,693	\$	378,509	\$	951,185	0.0609	29.00%	0.2709
2018	\$	1,148,763	\$	140,723	\$ 1,289,487	\$	338,302	\$	951,185	0.0609	29.00%	0.270
2019	\$	1,148,763	\$	100,517	\$ 1,249,280	\$	298,095	\$	951,185	0.0609	29.00%	0.2709
2020	\$	1,148,763	\$	60,310	\$ 1,209,073	\$	257,888	\$	951,185	0.0609	29.00%	0.270
2021	\$	1,148,763	\$	20,103	\$ 1,168,867	\$	217,682	\$	951,185	0.0609	29.00%	0.270
2022												
2023												

Version 2b (preferred)

- \$22 million from County split by estimated project cost
- All three Towns increase taxes by 7.82 cents (37%)
- County contributes \$7.7 million
- County pays \$339,803 per year towards debt service (decreases each year)
- Town pays \$6,743,816 through Special Obligation Bonds
- Debt Service of \$1,221,390 per year

County of Dare

Beach Nourishment Projects - Summer 2015

Tuesday, September 3, 2013

Version 2b

Dare Pays Share of Towns' Debt Serice up to \$1M/year 7.82¢ Town-Wide Property Tax Increase for all Towns

	Revenues	Expenditures (Before New Nourishment Projects	One-Time Expenditures	New Nourishment Debt Service (Other Towns)	New Nourishment Debt Service (Dare Project)	Interest Earnings	EOY Fund Balance	 Interest Earning Rate
2014	\$ 4,920,879	\$ 2,527,500				\$ 105,963	\$ 19,416,231	0.65%
2015	\$ 7,797,100	\$ 2,180,000				\$ 127,166	\$ 25,160,497	0.70%
2016	\$ 8,031,013	\$ 2,180,250	\$ 22,000,000		\$ 393,750	\$ 222,884	\$ 8,840,394	1.00%
2017	\$ 8,271,943	\$ 180,500		\$ 1,090,940	\$ 5,787,500	\$ 212,506	\$ 10,265,903	1.25%
2018	\$ 8,520,102	\$ 180,750		\$ 951,488	\$ 5,612,500	\$ 143,297	\$ 12,184,564	1.50%
2019	\$ 8,775,705	\$ 181,000		\$ 852,963	\$ 5,437,500	\$ 196,442	\$ 14,685,247	1.75%
2020	\$ 9,038,976	\$ 181,250		\$ 762,250	\$ 5,262,500	\$ 268,698	\$ 17,786,920	2.00%
2021	\$ 9,310,145	\$ 181,500		\$ 671,538	\$ 5,087,500	\$ 365,312	\$ 21,521,840	2.25%
2022	\$ 9,589,450	\$ 181,750				\$ 491,359	\$ 31,420,899	2.50%
2023	\$ 9,877,133	\$ 182,000				\$ 727,963	\$ 41,843,994	2.75%

County of Dare Beach Nourishment Projects - Summer 2015 Individual Town Project Breakdowns Tuesday, September 3, 2013 Version 2b

			Construction	l I	Total Project	% of Total Town		Dare Co.	т	otal Borrowed	
	Pe	rmitting Cost	Cost		Cost	Projects	D	own Payment		Amount	
Duck	\$	750,000	\$ 13,693,816	\$	14,443,816	35%	\$	7,700,000	\$	6,743,816	Special Obligation Bonds
Kitty Hawk	\$	870,000	\$ 15,645,159	\$	16,515,159	39%	\$	10,300,000	\$	6,215,159	Special Obligation Bonds
Kill Devil Hills	\$	550,000	\$ 10,412,691	\$	10,962,691	26%	\$	4,000,000	\$	6,962,691	Special Obligation Bonds
Total:	\$	2,170,000	\$ 39,751,666	\$	41,921,666	100%	\$	22,000,000	\$	19,921,666	
Dare			\$ 25,000,000	\$	25,000,000		\$	-	\$	25,000,000	160A-20 Installment Purchase
1			 			-					
Totals:	\$	2.170.000	\$ 64,751,666	\$	66,921,666		\$	22,000,000	\$	44,921,666	

County of Dare

Beach Nourishment Projects - Summer 2015 Individual Town Projects

Term:

5 years

0.0782 Cents Tow

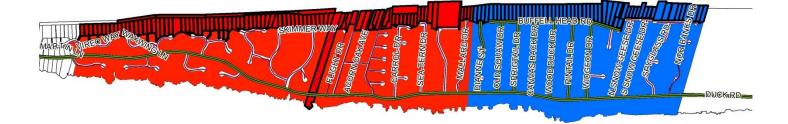
Interest Rate:

3.50%

Duck - 35% of Total Projects

,		1¢ =	\$156,188		\$ 0.21	Cı	rrent Propert	y Tax Rate	19 19 19	
		Principal	Interest	Debt Service	County Contributed		Town Contributed	¢ on Property Tax		New Property Tax Rate
2014										
2015										
2016			\$ 106,215	\$ 106,215	\$ -	\$	106,215			
2017	\$	1,348,763	\$ 212,430	\$ 1,561,193	\$ 339,803	\$	1,221,390	0.0782	37%	0.2882
2018	\$	1,348,763	\$ 165,223	\$ 1,513,987	\$ 292,597	\$	1,221,390	0.0782	37%	0.2882
2019	\$	1,348,763	\$ 118,017	\$ 1,466,780	\$ 245,390	\$	1,221,390	0.0782	37%	0.2882
2020	\$	1,348,763	\$ 70,810	\$ 1,419,573	\$ 198,183	\$	1,221,390	0.0782	37%	0.2882
2021	\$	1,348,763	\$ 23,603	\$ 1,372,367	\$ 150,976	\$	1,221,390	0.0782	37%	0.2882
2022										
2023										
otals:	S	6,743,816	\$ 696,299	\$ 7,440,115						

Proposed Beach Nourishment Funding Examples of MSDs



Oceanfront

Reach 7

Reach 8

Example of Municipal Service District For Discussion Purposes Only

MSD	Oceanfront	Additional Tax	Non-Oceanfront	Additional Tax
Tax Rate	Amount Generated	Per Parcel	Amount Generated	Per Parcel
\$0.01	\$18,764	\$97.73	\$45,079	\$49.27
\$0.02	\$37,529	\$195.46	\$90,157	\$98.53
\$0.03	\$56,293	\$293.19	\$135,236	\$147.80
\$0.04	\$75,058	\$390.92	\$180,315	\$197.07
\$0.05	\$93,822	\$488.66	\$225,393	\$246.33
\$0.06	\$112,586	\$586.39	\$270,472	\$295.60
\$0.07	\$131,351	\$684.12	\$315,551	\$344.86
\$0.08	\$150,115	\$781.85	\$360,629	\$394.13
\$0.09	\$168,880	\$879.58	\$405,708	\$443.40
\$0.10	\$187,644	\$977.31	\$450,787	\$492.66
\$0.11	\$206,408	\$1,075.04	\$495,865	\$541.93
\$0.12	\$225,173	\$1,172.77	\$540,944	\$591.20
\$0.13	\$243,937	\$1,270.51	\$586,023	\$640.46
\$0.14	\$262,701	\$1,368.24	\$631,101	\$689.73
\$0.15	\$281,466	\$1,465.97	\$676,180	\$738.99
\$0.16	\$300,230	\$1,563.70	\$721,259	\$788.26
\$0.17	\$318,995	\$1,661.43	\$766,337	\$837.53
\$0.18	\$337,759	\$1,759.16	\$811,416	\$886.79
\$0.19	\$356,523	\$1,856.89	\$856,495	\$936.06
\$0.20	\$375,288	\$1,954.62	\$901,573	\$985.33
\$0.21	\$394,052	\$2,052.36		
\$0.22	\$412,817	\$2,150.09		
\$0.23	\$431,581	\$2,247.82		
\$0.24	\$450,345	\$2,345.55		
\$0.25	\$469,110	\$2,443.28		
\$0.26	\$487,874	\$2,541.01		
\$0.27	\$506,639	\$2,638.74		
\$0.28	\$525,403	\$2,736.47		
\$0.29	\$544,167	\$2,834.20		
\$0.30	\$562,932	\$2,931.94		
\$0.31	\$581,696	\$3,029.67		
\$0.32	\$600,460	\$3,127.40	SAME OF THE SAME O	
\$0.33	\$619,225	\$3,225.13	11976 NOVE 18 13	
\$0.34	\$637,989	\$3,322.86		
\$0.35	\$656,754	\$3,420.59		
\$0.36	\$675,518	\$3,518.32		
\$0.37	\$694,282	\$3,616.05		
\$0.38	\$713,047	\$3,713.79		
\$0.39	\$731,811	\$3,811.52		
\$0.40	\$750,576	\$3,909.25		
\$0.41	\$769,340	\$4,006.98		
\$0.42	\$788,104	\$4,104.71		
\$0.43	\$806,869	\$4,202.44		
	\$825,633	\$4,300.17	The second secon	
\$0.44				

- Examples of MSD A
 - -Town Debt service (minus County contribution) of \$1,348,763 for 5 years
 - -Two MSDs: Oceanfront, Non-oceanfront
 - -Oceanfront Pays: \$0.41, \$4,007 on avg.
 - -Non-oceanfront Pays: \$0.10, \$493 on avg.

Example of Municipal Service District For Discussion Purposes Only

Example A

				County	General Town	Oceantfront	Non-Oceanfront	ENGLISH W
Fiscal Year	Principal	Interest	Debt Service	Contribution	Contribution	Contribution	Contribution	Total
2016	\$0	\$106,215	\$106,215	\$0	\$106,215	\$0	\$0	\$106,215
2017	\$1,348,763	\$212,430	\$1,561,193	\$339,803	\$1,263	\$769,340	\$450,787	\$1,561,193
2018	\$1,348,763	\$165,223	\$1,513,986	\$292,597	\$1,262	\$769,340	\$450,787	\$1,513,986
2019	\$1,348,763	\$118,017	\$1,466,780	\$245,390	\$1,263	\$769,340	\$450,787	\$1,466,780
2020	\$1,348,763	\$70,810	\$1,419,573	\$198,183	\$1,263	\$769,340	\$450,787	\$1,419,573
2021	\$1,348,763	\$23,603	\$1,372,366	\$150,976	\$1,263	\$769,340	\$450,787	\$1,372,366
					Esimated Parcels:	192	915	
					MSD Rate:	\$0.41	\$0.10	

Tax Per Parcel:

\$4,007

\$493

- Examples of MSD B
 - Town Debt service (minus County contribution) of \$1,348,763 for 5 years
 - General Town contribution of \$0.015, avg. of \$95
 - Two MSDs: Oceanfront, Non-oceanfront
 - Oceanfront Pays: \$032., \$3,127 on avg.
 - Non-oceanfront Pays: \$0.08, \$394 on avg.

Example of Municipal Service District

For Discussion Purposes Only

Example B

Fiscal Year	Principal	Interest	Debt Service	County Contribution	General Town Contribution	Oceantfront Contribution	Non-Oceanfront Contribution	Total
2016	\$0	\$106,215	\$106,215	\$0	\$106,215	\$0	\$0	\$106,215
2017	\$1,348,763	\$212,430	\$1,561,193	\$339,803	\$260,301	\$600,460	\$360,629	\$1,561,193
2018	\$1,348,763	\$165,223	\$1,513,986	\$292,597	\$260,301	\$600,460	\$360,629	\$1,513,987
2019	\$1,348,763	\$118,017	\$1,466,780	\$245,390	\$260,301	\$600,460	\$360,629	\$1,466,780
2020	\$1,348,763	\$70,810	\$1,419,573	\$198,183	\$260,301	\$600,460	\$360,629	\$1,419,573
2021	\$1,348,763	\$23,603	\$1,372,366	\$150,976	\$260,301	\$600,460	\$360,629	\$1,372,366
				Esimated Parcels:	2754	192	915	
				Project/MSD Rate:	\$0.015	\$0.32	\$0.08	

Tax Per Parcel:

\$3,127

\$394

\$95

Proposed Beach Nourishment Funding County/Town MOU

Proposed Beach Nourishment Funding Questions??